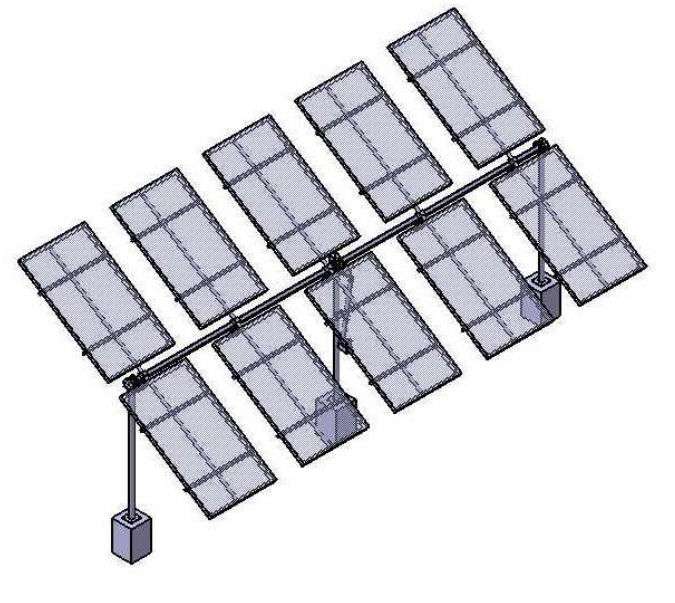
HORIZONTAL SINGLE AXIS TRACKER WITH MANUAL TILT



- Automated tracking of daily (E-W) movement of sun, and manual positioning to track seasonal movement
- Yield of solar PV system is increased upto 32%
- From 10 panels to 20 250W panels – custom configuration to suit your PV system
- Tracking angle in E-W direction from -45º to 45º
- Tilt can be adjusted manually from 0º to 25º
- Tracking is based on astronomical algorithms and not affected by cloudy or sunny days
- Pole and shaft made from hot dipped galvanized steel, other structural elements from steel or anodized aluminum
- Wind gusts of 30m/s
- Concrete or grounding screw foundation
- Over wind protection available
- Remote Monitoring (Optional)

TECHNICAL SPECIFICATIONS:

	NI-HSTT-25	NI-HSTT-50
Max Module Area	25 sq. m	50 sq. m
Max No of solar panels	10 panels of 250W	20 panels of 250W
Layout	2x5	2x10
Weight Without Modules	Approx 250 kg	Approx 500kg
Tracking method	Astronomical algorithms	
Tracking Control	Microcontroller	
Tracker Positioning (Daily)	Linear Actuator	
Tracking Range	-45 to 45 degrees	
Array Positioning (Seasonal)	Manual	
Seasonal Tilt Range	0 to 25 degree	
Positioning accuracy	0.5 degrees	
Material Specification	Hot dipped galvanized steel pole, with galv. steel or Al rails	
Foundation	Concrete or grounding screw	
Wind Speed Resistance	30m/s	
Power Supply to Motors	24V DC	
GPS Interface	Optional	
Remote Monitoring	Optional	
Operational Mode	Automatic or Manual	
Operating Temperature	-25 to 60 deg C	
Warranty	10 years on mechanical, 2 years on electrical parts including actuators and drives	

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